TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-05-16-05** **Date: 19-05-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to drains and Construction of culverts atmVaradarajanagara cross roads in Ward no.11 (Kuvempunagara) in Vidyaranyapura Sub division.
Agency	:	V. Mohan Kumar, #530, Kaliyamma temple road, Kuvempu nagara, 2nd stage, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/181/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-05-17
Sample ID No	:	2017-05-16-05/01
Sample Type	:	Ultratech 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	17-05-2017 to 18-05-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.05	–
2	Finess by Air permeablity method (m^2/kg, Min)	265.5	225m^2/kg, Min
3	Density (gm/cc)	3.2	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Prepared by
Harshitha

FOR CIVIL Pro.
CIVIL Pro Sig..... Date..... BANGALORE
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-05-16-05** **Date: 13-06-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to drains and Construction of culverts atmVaradarajanagara cross roads in Ward no.11 (Kuvempunagara) in Vidyaranyapura Sub division.
Agency	:	V. Mohan Kumar, #530, Kaliyamma temple road, Kuvempu nagara, 2nd stage, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/181/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-05-17
Sample ID No	:	2017-05-16-05/01
Sample Type	:	Ultratech 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	17-05-17

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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Prepared by
Harshitha

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-16-05** **Date: 20-05-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to drains and Construction of culverts atmVaradarajanagara cross roads in Ward no.11 (Kuvempunagara) in Vidyaranyapura Sub division
Agency	:	V. Mohan Kumar, #530, Kaliyamma temple road, Kuvempu nagara, 2nd stage, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/181/2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	16-05-17
Sample ID No	:	2017-05-16-05/02
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	17-05-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0	100	100
2	40 mm	307	307	2.0	98.0	90-100
3	20 mm	9083	9390	62.6	37.4	30-70
4	10 mm	1704	11094	74.0	26.0	10-35
5	4.75 mm	3458	14552	97.0	3.0	0-5
6	Pan	448	15000	100.0	0	---

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-05-16-05** **Date: 20-05-2017**

Sample ID No : 2017-05-16-05/02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.7	
3	Specific Gravity	1.64	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.53	–
6	Water Absorption(%)	0.23	–

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Harshitha

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Authorized Signatory
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-05-16-05** **Date: 20-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to drains and Construction of culverts atmVaradarajanagara cross roads in Ward no.11 (Kuvempunagara) in Vidyaranyapura Sub division
Agency	:	V. Mohan Kumar, #530, Kaliyamma temple road, Kuvempu nagara, 2nd stage, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/181/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-05-17
Sample ID No	:	2017-05-16-05/03
Sample Type	:	Fine aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	17-05-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	69	69	6.9	93.1	90-100	90-100	90-100	95-100
3	2.36 mm	145	214	21.4	78.6	60-95	75-100	85-100	95-100
4	1.18 mm	214	428	42.8	57.2	30-70	55-90	75-100	90-100
5	600 micron	209	637	63.7	36.3	15-34	35-59	60-79	80-100
6	300 micron	178	815	81.5	18.5	5-20	8-30	12-40	15-50
7	150 micron	108	923	92.3	7.7	0-10	0-10	0-10	0-15
8	Pan	77	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-05-16-05** **Date: 20-05-17**

Sample ID No : 2017-05-16-05/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.64	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	6.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Prepared by
Harshitha

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-05-20-01** **Date: 23-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to drains and Construction of culverts atmVaradarajanagara cross roads in Ward no.11 (Kuvempunagara) in Vidyaranyapura Sub division.
Agency	:	V. Mohan Kumar, #530, Kaliyamma temple road, Kuvempu nagara, 2nd stage, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/181/2016-17
Source of Sample	:	Sample supplied by the Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-05-17
Sample ID No	:	2017-05-20-01/02
Sample Type	:	JSW Steel Fe500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	22-05-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	JSW	Fe500	12mm	0.882	562	647	20%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	JSW	Fe500	12mm	Satisfactory	Satisfactory

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Prepared By:
Harshitha

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-05-20-01** **Date: 23-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to drains and Construction of culverts atmVaradarajanagara cross roads in Ward no.11 (Kuvempunagara) in Vidyaranyapura Sub division
Agency	:	V. Mohan Kumar, #530, Kaliyamma temple road, Kuvempu nagara, 2nd stage, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/181/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-05-17
Sample ID No	:	2017-05-20-01/01
Sample Type	:	JSW Steel Fe500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	22-05-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	JSW	Fe500	10mm	0.614	535	624	21%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	JSW	Fe500	10mm	Satisfactory	Satisfactory

Note:
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Authorized Signature
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Harshitha

End of Report

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2017-05-20-01**	**Date: 24-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to drains and Construction of culverts atmVaradarajanagara cross roads in Ward no.11 (Kuvempunagara) in Vidyaranyapura Sub division	
Agency	:	V. Mohan Kumar, #530, Kaliyamma temple road, Kuvempu nagara, 2nd stage, Bangalore.	
Customer's Reference	:	BBMP/EE/BTP/WO/181/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	20-05-17	
Sample ID No	:	2017-05-20-01/03	
Sample Type /Size	:	Precast Cover Slab	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	20/05/2017	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.05	100.51	1.128	4423	76.6	17.3	16.1	20.1
2	Cover Slab-2	75.04	100.49	1.118	4422	80.8	18.3	17.0	21.2
3	Cover Slab-3	75.07	100.52	1.123	4425	81.5	18.4	17.1	21.4

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Prepared by
Harshitha

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2017-05-20-01** **Date: 24-05-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to drains and Construction of culverts atmVaradarajanagara cross roads in Ward no.11 (Kuvempunagara) in Vidyaranyapura Sub division

Agency : V. Mohan Kumar, #530, Kaliyamma temple road, Kuvempu nagara, 2nd stage, Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/181/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-05-17

Sample ID No : 2017-05-20-01/04

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 20/05/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	100.04	250.52	3.543	7859	132.5	16.9	16.9	21.1
2	Cover Slab-2	100.09	250.49	3.682	7867	139.2	17.7	17.7	22.1
3	Cover Slab-3	100.03	250.50	3.615	7857	135.8	17.3	17.3	21.6

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Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-30-03** **Date: 02-06-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to drains and Construction of culverts atmVaradarajanagara cross roads in Ward no.11 (Kuvempunagara) in Vidyaranyapura Sub division.

Agency : V. Mohan Kumar, #530, Kaliyamma temple road, Kuvempu nagara, 2nd stage, Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/181/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-05-17

Sample ID No : 2017-05-30-03/01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Concrete	M20	26/05/2017	02/06/2017	150.14 X 150.35 X 150.45	22574	8.145	388.3	17.2	17.6
2	Drain Concrete	M20	26/05/2017	02/06/2017	150.88 X 150.34 X 150.64	22683	8.165	412.8	18.2	
3	Drain Concrete	M20	26/05/2017	02/06/2017	150.77 X 150.64 X 150.22	22712	8.177	397.5	17.5	

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23-06-17

Lab ID	:	**CP-2017-05-30-03**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to drains and Construction of culverts atmVaradarajanagara cross roads in Ward no.11 (Kuvempunagara) in Vidyaranyapura Sub division.
Agency	:	V. Mohan Kumar, #530, Kaliyamma temple road, Kuvempu nagara, 2nd stage, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/181/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-05-17
Sample ID No	:	2017-05-30-03/02
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	26/05/2017	23/06/2017	149.85 X 150.48 X 150.37	22549	8.171	541.2	24.0	24.0
2	Drain Concrete	M20	26/05/2017	23/06/2017	151.00 X 150.24 X 150.66	22686	8.189	539.9	23.8	
3	Drain Concrete	M20	26/05/2017	23/06/2017	150.47 X 150.34 X 150.65	22622	8.162	549.7	24.3	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-30-03** **Date: 02-06-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to drains and Construction of culverts atmVaradarajanagara cross roads in Ward no.11 (Kuvempunagara) in Vidyaranyapura Sub division.

Agency : V. Mohan Kumar, #530, Kaliyamma temple road, Kuvempu nagara, 2nd stage, Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/181/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-05-17

Sample ID No : 2017-05-30-03/03

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	26/05/2017	02/06/2017	150.66 X 150.47 X 150.44	22670	8.174	389.9	17.2	17.3
2	Drain Concrete	M20	26/05/2017	02/06/2017	150.34 X 150.44 X 149.35	22617	8.215	398.1	17.6	
3	Drain Concrete	M20	26/05/2017	02/06/2017	150.28 X 150.46 X 150.66	22611	8.175	386.7	17.1	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harsitha

CIVIL Pro Sig..... Date..... LORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-05-30-03** **Date: 23-06-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to drains and Construction of culverts atmVaradarajanagara cross roads in Ward no.11 (Kuvempunagara) in Vidyaranyapura Sub division.
Agency	:	V. Mohan Kumar, #530, Kaliyamma temple road, Kuvempu nagara, 2nd stage, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/181/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-05-17
Sample ID No	:	2017-05-30-03/04
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	26/05/2017	23/06/2017	150.77 X 150.98 X 150.22	22763	8.197	539.5	23.7	23.7
2	Drain Concrete	M20	26/05/2017	23/06/2017	150.46 X 150.34 X 150.64	22620	8.145	522.5	23.1	
3	Drain Concrete	M20	26/05/2017	23/06/2017	150.44 X 150.49 X 150.67	22640	8.167	547.9	24.2	

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Prepared by
Harsitha

FOR CIVIL Pro.
CIVIL Pro Sig..... Date..... BANGALORE
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****End of Report****

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